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Non-Binary Codes

The term "non-binary codes" can refer to different concepts depending on the context. In the realm of gender identities, "non-binary" refers to gender identities that do not fit within the traditional binary of male and female. This concept has been recognized in various cultures throughout history and has gained more visibility in recent times as discussions about gender identity have become more mainstream. In the context of computer science, non-binary codes are types of codes used in digital systems that do not follow the binary system of encoding data. For example, Gray code is a non-weighted binary code, which means it

does not follow the sequence of binary number weights typically used in computing. The invention and development of non-binary codes in computing have been crucial for advancing technology, allowing for more complex and varied data representation and processing. These codes are part of the broader history of computing, which includes pioneers like Grace Hopper, who developed the concept of the compiler, translating instructions into machine-readable code, and Gottfried Wilhelm Leibniz, who explored non-decimal number systems and invented the base 16, or hexadecimal system, which is widely used in computing today.